

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 00:09:17 ; Search time 8498.8 Seconds
(without alignments)
31.610 Million cell updates/sec

Title: US-09-851-670-6
Perfect score: 25
Sequence: 1 cccctagagcccccagctactactgct 25

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 11351937 seqs, 537289281 residues
Total number of hits satisfying chosen parameters: 111874

Minimum DB seq length: 0
Maximum DB seq length: 60

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
EST:
1: em_estfun:*
2: em_esthum:*
3: em_estin:*
4: em_estom:*
5: em_estopl:*
6: em_estiba:*
7: em_estro:*
8: em_estov:*
9: em_hic:*
10: gb_est1:*
11: gb_est2:*
12: gb_hic:*
13: gb_gss:*
14: em_gss_fun:*
15: em_gss_hum:*
16: em_gss_inv:*
17: em_gss_pln:*
18: em_gss_pro:*
19: em_gss_rod:*
20: em_gss_vrt:*
21: em_gss_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15.8	63.2	54	13	A2766014 1M0563H17
2	15.6	62.4	52	13	A2327082 1M0050D15
3	14.6	58.4	43	13	A2762861 1M0558P04
4	14.6	58.4	57	10	AA291683 zt39d03.s
5	14.2	56.8	43	13	A1048043 vn21f12.x
6	13.8	55.2	45	13	A2599477 1M0414B20
7	13.8	55.2	50	10	AU104177 1M0414B20
8	13.8	55.2	50	10	AU104182 1M0414B20
9	13.8	55.2	50	10	AU104190 1M0414B20
10	13.6	54.4	27	13	A2774487 2M0004D01
11	13.6	54.4	56	11	BF018760 ux97h05.x
12	13.4	53.6	42	13	A2370282 1M0121C16

13	13.2	52.8	28	13	A2586097 1M0391G17
14	13.2	52.8	43	11	BE986209 601438B19
15	13	52.0	32	13	A2581120 1M0369E02
16	12.8	51.2	40	10	AA811470 ob83d02.s
17	12.8	51.2	50	10	AU102901 1M0102901
18	12.8	51.2	50	10	AU102902 1M0102902
19	12.8	51.2	50	10	AU105107 1M0105107
20	12.8	51.2	50	10	AU105124 1M0105124
21	12.8	51.2	55	10	AU150170 1M0150170
22	12.6	50.4	46	10	AA867748 vx16a12.r
23	12.6	50.4	50	10	AU105885 1M0105885
24	12.6	50.4	32	11	H147777 1M24C09.s1
25	12.4	49.6	54	13	A2586611 2M0161P06
26	12.4	49.6	50	10	AU102899 1M0102899
27	12.4	49.6	50	10	AU102900 1M0102900
28	12.4	49.6	50	10	AU107387 1M0107387
29	12.4	49.6	50	10	AU107388 1M0107388
30	12.4	49.6	50	10	AU107389 1M0107389
31	12.4	49.6	59	10	AA419276 vz35e04.s
32	12.4	49.6	60	10	AT984456 vr83b02.x
33	12.2	48.8	21	13	A2596843 1M0410C23
34	12.2	48.8	41	13	A2775318 2M0007B12
35	12.2	48.8	46	10	AA985334 am79g08.s
36	12.2	48.8	49	10	AA011834 mb01c08.r
37	12.2	48.8	50	10	AU104186 1M0104186
38	12.2	48.8	51	13	A2591236 1M0401P06
39	12.2	48.8	52	11	H39343 DR26 1FNgam
40	12.2	48.8	54	13	A2576640 AsT-TD13S
41	12.2	48.8	55	10	AA894695 oJ27d05.s
42	12.2	48.8	56	13	A2775455 2M0007G23
43	12.2	48.8	58	10	AT095308 oy20f06.s
44	12.2	48.8	58	10	AT375271 tc11c09.x
45	12.2	48.8	60	13	A2456310 1M0259M03

ALIGNMENTS

RESULT 1
LOCUS A2766014 54 bp DNA
DEFINITION 1M0563H17F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0563H17 F, DNA sequence.
ACCESSION A2766014
VERSION A2766014.1 GI:12882637
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 54)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

TITLE Unpublished (2000)
JOURNAL Contact: Robert B. Weiss
COMMENT University of Utah
Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 1000 Std Error: 0.00
Plate: 0563 row: H column: 17
Seq primer: CGTGTAAACGACGCGCCAGT
Class: Plasmid ends
High quality sequence stop: 54.
Location/Qualifiers

FEATURES
source
1. 54

FEATURES

source

Location/Qualifiers

1. 43
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG1M0558P04"
/clone_1lb="Mouse 10kb plasmid UUCG1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42ny; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (q11473211419b/AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
12 a 15 c 8 g 8 t

ORIGIN

Query Match

58.4%; Score 14.6; DB 13; Length 43;

Best Local Similarity 81.0%; Pred. No. 3.6e+04;

Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 agggccaccagctactgct 25

Db 20 AGGACCCACATCTCTCTCT 40

RESULT 4

AA291683

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

AA291683 57 bp mRNA EST 16-MAY-1997
zt39d03.s1 Soares ovary tumor Nshot Homo sapiens cDNA clone
IMAGE:724709 3' similar to gb:U01677 GLYCERALDEHYDE 3-PHOSPHATE
DEHYDROGENASE, LIVER (HUMAN); mRNA sequence.
AA291683
AA291683.1 GI:1939679
EST.
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homindae; Homo.
1 (bases 1 to 57)
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Gelsel, G., Jost, S.,
Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B.,
Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie,
T., Waterston, R., and Wilson, R.
Washu-Merck EST Project 1997
Unpublished (1997)
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Seq primer: -41m3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers

FEATURES

source

1. 57

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:724709"
/clone_1lb="Soares ovary tumor Nshot"
/sex="Female"
/tissue_type="ovarian tumor"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: ovary; Vector: pTRF3D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer (5'
TGTCACATCTGAGATGGAGCGCGCGGCTTTTCTTTTCTTTT 3'),
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pTRF3 vector
(Pharmacia). Library constructed by Bento Soares and
M.Fatima Bernaldo."

BASE COUNT
8 a 19 c 17 g 13 t

ORIGIN

Query Match

58.4%; Score 14.6; DB 10; Length 57;

Best Local Similarity 81.0%; Pred. No. 3.7e+04;

Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ccctagggccaccagctac 21

Db 8 CCTAGGCCCTCCCTCTTC 28

RESULT 5

A1048043/C

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

A1048043 43 bp mRNA EST 08-JUL-1998
vn21f12.r1 Knowles Solter mouse blastocyst B1 Mus musculus cDNA
clone IMAGE:1021871 5' similar to WP.T1345.2 CEO3653
RETINAL-BINDING LIKE PROTEIN; mRNA sequence.
A1048043
A1048043.1 GI:3296330
EST.
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 43)
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Gelsel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.
The Washu-HMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
Washu-HMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:572647
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -40RP
High quality sequence stop: 1.
Location/Qualifiers

FEATURES

source

1. 43

/organism="Mus musculus"
/strain="B6D2 F1/J"
/db_xref="taxon:10090"
/clone="IMAGE:1021871"
/clone_1lb="Knowles Solter mouse blastocyst B1"
/tissue_type="blastocyst"

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/dev_stage="embryo (pre-implantation)"
/lab_host="DH10B"
/note="Organ: embryo; Vector: pSPORT; Site: 1: NotI;
Site: 2: SalI; Cloned unidirectionally from mRNA prepared
from 800 blastocysts. Primer: SalI(dT)
5'-CGGTGACACCGTCGACCGTTTGTTTTGTTTT-3'. cDNAs were
cloned into the NotI/SalI sites of a pSPORT vector (Life
Technologies). Two different size selections: B1 (larger
inserts) and B3."

BASE COUNT      13 a      5 c      16 g      9 t
ORIGIN

Query Match      56.8%; Score 14.2; DB 10; Length 43;
Best Local Similarity 84.2%; Pred. No. 5.2e+04;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY      5 aggcaccacagctctactg 23
         ||||||| ||||| |||||
Db      42 AGCCCCCTCCAGGCTACTG 24

```

RESULT	6
AZ599477/c	
LOCUS	AZ599477 45 bp DNA GSS 13-DEC-2000
DEFINITION	IM0414B20R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0414B20 R, DNA sequence.
ACCESSION	AZ599477
VERSION	AZ599477.1 GI:11721667
KEYWORDS	GSS.
SOURCE	house mouse.
ORGANISM	Mus musculus

REFERENCE
AUTHORS

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
1 (bases 1 to 45)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,

TITLE	Mouse whole genome scaffolding with paired end reads from 10kb
JOURNAL	PLASMID
COMMENT	Unpublished (2000) Contact: Robert B. Weiss

University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG,
84112, USA
Tel.: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0414 row: B column: 20
Seq primer: CACACAGGAACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 45.
Location/Qualifiers
1..45

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/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0414B20"
/clone_1lb="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/mote="Vector: PWD42ny; Purified genomic DNA from M.
laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DN
was hydrodynamically sheared by repeated passage through
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The

```

adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1147321141gb|AR129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance.

Query Match	55.2%	Score 13.8	DB 13	Length 45
Best Local Similarity	72.0%	Pred. No. 7.5e+04		
Matches 18	Conservative 0	Mismatches 7	Indels 0	Gaps 0
0y	1	ecctagagccaccacagctctactgct	25	
Db	29	CCCATGCGCCACCCGGTTCTTTTC	5	

RESULT	7
LOCUS	AU104177
DEFINITION	AU104177 50 bp mRNA EST 05-APR-2001
ACCESSION	AU104177 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
VERSION	H5104173, mRNA sequence.
KEYWORDS	AU104177
SOURCE	AU104177.1 GI:13553698
ORGANISM	EST.
	human.
	Homo sapiens

REFERENCE
 Suzuki, Y., Tsunoda, T., Taira, H., Mizushima-Sugano, J., Sese, J., Hata
 1 (bases 1 to 50)
 Mammalia; Eutheria; Primates; Catarrhini; Hominae; Homo.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 AUTHORS

TITLE
JOURNAL
COMMENT

H., Ota, T., Isogai, T., Tanaka, T., Nakamura, Y., Morishita, S., Okubo, K., Suyama, A. and Sugano, S.
Fine structural analysis of transcription start sites of human mRNAs using full-length enriched and 5'-end enriched cDNA libraries
Unpublished (2001)
Contact: Yutaka Suzuki
Department of Virology

Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
 Email: yszuzuki@ims.u-tokyo.ac.jp
 Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
 S., Construction and Characterization of a full length-enriched and
 a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
 Location/Qualifiers
 1..50
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="HS104173"
 /clone_lib="Sugano Homo sapiens cDNA library"
 11 a 20 c 6 g 13 t
 BASE COUNT
 ORIGIN

Query Match	55.2%	Score 13.8	DB 10	Length 50
Best Local Similarity	72.0%	Precl. No. 7.5e+04		
Matches 18	Conservative 0	Mismatches 7	Indels 0	Gaps 0
Qy	1	ccttagggcccccaccagttactgct	25	
Db	6	ccccggccccaaccggtatcttact	30	
RESULT	8			
LOCUS	AU104182	50 bp	mRNA	
DEFINITION	AU104182	Sugano Homo sapiens	cdNA library Homo sapiens	cdNA clone
			EST	05-APR-2001

ACCESSION KAT02326, mRNA sequence.
 AU104182
 VERSION AU104182.1 GI:13553703
 KEYWORDS EST.
 SOURCE human.

ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 50)
 REFERENCE Suzuki,Y., Tsunoda,T., Taira,H., Mizushima-Sugano,J., Sese,J., Hata
 AITHORS H., Oca,T., Isogai,T., Tanaka,T., Nakamura,Y., Morishita,S., Okubo
 ,K., Suyama,A. and Sugano,S.
 Fine Structural analysis of transcription start sites of human
 mRNAs using full-length enriched and 5'-end enriched cDNA libraries
 unpublished (2001)

JOURNAL Contact: Yutaka Suzuki
 COMMENT Department of Medical Science, University of Tokyo
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ms.u-tokyo.ac.jp
 Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
 S. Construction and characterization of a full length-enriched and
 a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
 source 1..50
 Location/Qualifiers
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="KAT02326"
 /clone_lib="Sugano Homo sapiens cDNA library"

BASE COUNT 11 a 20 c 6 g 13 t
 ORIGIN

Query Match 55.2%; Score 13.8; DB 10; Length 50;
 Best Local Similarity 72.0%; Pred. No. 7.5e+04;
 Matches 18; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 ccctagggcccccagctactgct 25
 DB 7 CCCGTGGCCCAACCGTCATCTACT 31

RESULT 9
 LOCUS AU104190 50 bp mRNA EST 05-APR-2001
 DEFINITION AU104190 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
 LNC15187, mRNA sequence.
 ACCESSION AU104190
 VERSION AU104190.1 GI:13553711
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 50)
 REFERENCE Suzuki,Y., Tsunoda,T., Taira,H., Mizushima-Sugano,J., Sese,J., Hata
 AITHORS H., Oca,T., Isogai,T., Tanaka,T., Nakamura,Y., Morishita,S., Okubo
 ,K., Suyama,A. and Sugano,S.
 Fine Structural analysis of transcription start sites of human
 mRNAs using full-length enriched and 5'-end enriched cDNA libraries
 unpublished (2001)

JOURNAL Contact: Yutaka Suzuki
 COMMENT Department of Medical Science, University of Tokyo
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: yusuzuki@ms.u-tokyo.ac.jp
 Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
 S. Construction and characterization of a full length-enriched and
 a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
 source 1..50
 Location/Qualifiers
 /organism="Homo sapiens"
 /db_xref="taxon:9606"

/clone="LNC15187"
 /clone_lib="Sugano Homo sapiens cDNA library"
 BASE COUNT 16 a 17 c 6 g 11 t
 ORIGIN

Query Match 55.2%; Score 13.8; DB 10; Length 50;
 Best Local Similarity 72.0%; Pred. No. 7.5e+04;
 Matches 18; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 ccctagggcccccagctactgct 25
 DB 22 CCCGTGGCCCAACCGTCATCTACT 46

RESULT 10
 LOCUS A2774487 27 bp DNA GSS 16-FEB-2001
 DEFINITION 2M0004D01F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC2M0004D01 F, DNA sequence.
 ACCESSION A2774487
 VERSION A2774487.1 GI:12899988
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sclerognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 27)
 REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
 AITHORS Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
 ,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausen,A.
 and Wright,D., Weiss,R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 unpublished (2000)
 JOURNAL Contact: Robert B. Weiss
 COMMENT University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0004 row: D column: 01
 Seq primer: CGTTGTAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 27.

FEATURES
 source 1..27
 Location/Qualifiers
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0004D01"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/nanres/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (914732114|914732114|914732114), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptor complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to

BASE COUNT 5 a 2 c 12 g 8 t
 adapted vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

Query Match 54.4%; Score 13.6; DB 13; Length 27;
 Best Local Similarity 80.0%; Pred. No. 8.8e+04;
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Oy 5 agggcccccagctactgc 24
 ||| ||||| ||||| |||||
 Db 20 AGACCCACCCATCAATGC 1

RESULT 11
 BF018760 56 bp mRNA EST 29-DEC-2000
 LOCUS ux97h05.x1 McCarrey Eddy spermatoocytes Mus musculus cDNA clone
 DEFINITION IMAGE:3656505 3', mRNA sequence.
 ACCESSION BF018760 GI:10750092
 VERSION BF018760
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 56)
 Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wyllie, T.,
 Underwood, K., Steptoe, M., Rheising, B., Allen, M., Bowers, Y., Person
 , E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,
 Waterston, R. and Wilson, R.
 The WashU-NCI Mouse EST Project 1999
 Unpublished (1999)
 Other ESTs: ux97h05.y1
 Contact: Marra M/WashU-NCI Mouse EST Project 1999
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@wustl.edu
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:141809

FEATURES

source
 1. 56
 Location/Qualifiers
 /organism="Mus musculus"
 /strain="CD-1"
 /db_xref="taxon:10090"
 /clone="IMAGE:3656505"
 /clone_1lb="McCarrey Eddy spermatoocytes"
 /sex="male"
 /tissue_type="spermatoocytes, pooled from multiple mice"
 /dev_stage="60 day"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: testis; Vector: pBluescript SK+ (Stratagene
); Site 1: XhoI; Site 2: EcoRI; cDNA oligo dt-primed
 15'-(GA)10-ACGAGTCGAGTTTCTTTT-3' and directionally
 cloned using 5' linkers 5'-AATTGCGCAGAG-3' and
 5'-CTCGTGGCG-3'. Size selection of >400bp material gives
 average insert size ranging from 1-2 kb. Library was mass
 excised (from lambda-Unizap-XR) and resulting
 single-stranded phagemids were prepped and transformed
 into DH10B. Library contains 988 recombinants.
 References: J. Androl. 20:635-639 and Gene 25:263-269.
 Library constructed and donated by J. McCarrey, Ph.D.
 (Southwest Foundation for Biomedical Research, Dept. of
 Genetics); excision done by E.M. Eddy, Ph.D. (National
 Institutes of Health, National Institute of Environmental
 Health Sciences). Original lambda-based library is

BASE COUNT 15 a 13 c 11 g 17 t
 available through ATCC, catalog #63422."

Query Match 54.4%; Score 13.6; DB 11; Length 56;
 Best Local Similarity 80.0%; Pred. No. 9.1e+04;
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Oy 1 ccctagggcccccagctcta 20
 ||| ||||| ||||| |||||
 Db 33 CACTGGGCCCCACGAGCA 52

RESULT 12
 A2370282 42 bp DNA GSS 02-OCT-2000
 LOCUS 1M0121C16F Mouse 10kb plasmid UUC1M 1library Mus musculus genomic
 DEFINITION clone UUC1M0121C16 F, DNA sequence.
 ACCESSION A2370282
 VERSION A2370282
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 42)
 Dunn, D., Aoyagi, A., Barber, M., Becorn, T., Duval, B., Hamill, C.,
 Islam, H., Lonacre, S., Mahmood, M., Meenen, E., Pedersen, T., Reilly
 , M., Rose, M., Rose, R., Stokes, R., Tinley, A., von Niederhausen, A.,
 and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0121 row: C column: 16
 Seq primer: CGTTGTAAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 42.

FEATURES

source
 1. 42
 Location/Qualifiers
 /organism="Mus musculus"
 /strain="C57BL/6j"
 /db_xref="taxon:10090"
 /clone="UUC1M0121C16"
 /clone_1lb="Mouse 10kb plasmid UUC1M 1library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: pMD42nv; Purified genomic DNA from M.
 musculus C57BL/6j (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/unares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pMD42 (g11473211419b1AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into

chemically-competent *E. coli* XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 8 a 4 c 14 g 16 t

ORIGIN

Query Match 53.6%; Score 13.4; DB 13; Length 42;
Best Local Similarity 73.9%; Pred. No. 1.1e+05;
Matches 17; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 3 ctaggcccccagctactgct 25
|||||
Db 34 CTAGCCTCCAGCATTAACGCT 12

RESULT 13

A2586097

LOCUS

DEFINITION

28 bp DNA GSS 13-DEC-2000
1M0391G17R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0391G17 R, DNA sequence.

ACCESSION

A2586097

VERSION

A2586097.1 GI:11708287

KEYWORDS

GSS.

SOURCE

house mouse.

ORGANISM

Mus musculus

REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sclerognathi; Muridae; Mus.

AUTHORS

1 (bases 1 to 28)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weiss
University of Utah Genome Center
University of UtahRm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0391 row: G column: 17
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 28.

FEATURES

Location/Qualifiers

1..28

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGC1M0391G17"

/clone_lib="Mouse 10kb plasmid UUGC1M library"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PMD42ny; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g11473211419b1AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to

adaptor vector DNA, and transformed into
chemically-competent *E. coli* XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 6 a 11 c 3 g 8 t

ORIGIN

Query Match 52.8%; Score 13.2; DB 13; Length 28;
Best Local Similarity 83.3%; Pred. No. 1.3e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 cctaggcccccagctact 19
|||||
Db 11 CCTGTGCCCCAGCATTCCT 28

RESULT 14

BE896209

LOCUS

43 bp mRNA EST 20-OCT-2000
601438919F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3923716 5',
mRNA sequence.

DEFINITION

601438919F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3923716 5',
mRNA sequence.

ACCESSION

BE896209

VERSION

BE896209.1 GI:10360382

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

AUTHORS

1 (bases 1 to 43)
NIH-MGC http://mgi.nci.nih.gov/.

TITLE

National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)

JOURNAL

Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: ATCC/DC/DTP
CDNA Library Preparation: Life Technologies, Inc.
CDNA library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

COMMENT

DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM9760 row: f column: 05
High quality sequence stop: 43.

FEATURES

Location/Qualifiers

1..43

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:3923716"

/clone_lib="NIH_MGC_72"

/tissue_type="melanotic melanoma"

/lab_host="DH10B (phage-resistant)"

/note="Organ: skin; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2 kb. Library constructed by Life
Technologies."

BASE COUNT

11 a 11 c 11 g 10 t

ORIGIN

Query Match 52.8%; Score 13.2; DB 11; Length 43;
Best Local Similarity 83.3%; Pred. No. 1.3e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 5 agggcccccagctact 22
|||||
Db 10 AGGTCCACACAGCATTC 27

RESULT 15

A2581120

LOCUS

32 bp DNA GSS 13-DEC-2000
1M0369E02R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0369E02 R, DNA sequence.

ACCESSION A2581120
 VERSION A2581120.1 GI:11695814
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 32)
 REFERENCE Dunp,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,
 M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A.
 and Wright,D., Weis,R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 TITLE Unpublished (2000)
 JOURNAL Contact: Robert B. Weiss
 COMMENT University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunegenetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0369 row: E column: 02
 Seq primer: CACACAGAAACAGCTATGACC
 Class: Plasmid ends
 High quality sequence stop: 32.
 Location/Qualifiers
 1..32
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUCG1M0369E02"
 /clone_lib="Mouse 10kb plasmid UUCG1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PWD42ny; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PWD42 (g11473211419b1AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

FEATURES

source

BASE COUNT

8 a 9 c 9 g 6 t

ORIGIN

Query Match 52.0%; Score 13; DB 13; Length 32;
 Best Local Similarity 76.2%; Pred. No. 1.5e+05;
 Matches 16; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 agggccaccagctctactgct 25
 ||||| ||| | |||||
 DB 3 AGGCGTACCTGACACTGCT 23

Search completed: March 9, 2002, 00:09:19
 Job time: 11035 sec